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Air Operating Permit
Excess Emissions Report
Form Part II

Name of Facility	Shell, Puget Sound Refinery	Reported by	Tim Figgie
Date of notification	Oct 22, 2010	Incident type: breakdown/ upset/startup or shutdown	Shutdown/ Startup
Start Date	Oct 22, 2010	Start Time:	10:00 AM
End Date	Nov 11, 2010	End Time:	6:00 PM
Process unit or system(s): SRU3			

Incident Description

On October 22 at approximately 10 AM high SO2 readings occurred on SRU3 during shutdown of the unit for maintenance and repair. High SO2 occurred during restart of the unit on November 11. There was no AAG feed in the unit during these periods. These emissions are part of normal shutdown and startup and are unavoidable.

Immediate steps taken to limit the duration and/or quantity of excess emissions:

All AAG feed was routed to SRU4.

Applicable air operating permit
term(s): 5.8.15

Estimated Excess Emissions: Based on SO2 CEMS and calculated stack flow	Pollutant(s): SO2	Pounds (Estimate): 94
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The incident was the result of the following (check all that apply):

- ☒ Scheduled equipment startup
- ☒ Scheduled equipment shutdown
- ☐ Poor or inadequate design
- ☐ Careless, poor, or inadequate operation
- ☐ Poor or inadequate maintenance
- ☐ A reasonably preventable condition

Did the facility receive any complaints from the public?

- ☒ No
- ☐ Yes (provide details below)

Did the incident result in the violation of an ambient air quality standard

- ☒ No
- ☐ Yes (provide details below)

Root and other contributing causes of incident:

These emissions are part of normal startup and are unavoidable.

The root cause of the incident was:

PSR0000529

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(The retention of records of all required monitoring data and support information shall be kept for a period of five years from the date of the report as per the WAC regulation (173-401-615))

- ☐ Identified for the first time
☒ Identified as a recurrence (explain previous incident(s) below – provide dates)

These emissions are part of normal startup and are unavoidable.

Are the emissions from the incident exempted by the NSPS or NESHAP "malfunction" definitions below?

- ☐ No
☒ Yes (describe below)

These emissions are part of normal startup and are unavoidable.

Definition of NSPS "Malfunction": Any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or failure of a process to operate in a normal or usual manner. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. 40 CFR 60.2

Definition of NESHAP "Malfunction": Any sudden, infrequent, and not reasonably preventable failure of air pollution control and monitoring equipment, process equipment, or a process to operate in a normal or usual manner which causes, or has the potential to cause, the emission limitations in an applicable standard to be exceeded. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. 40 CFR 63.2

Analyses of measures available to reduce likelihood of recurrence (evaluate possible design, operational, and maintenance changes; discuss alternatives, probable effectiveness, and cost; determine if an outside consultant should be retained to assist with analyses):

These emissions are part of normal startup and are unavoidable.

Description of corrective action to be taken (include commencement and completion dates):

See above

If correction not required, explain basis for conclusion:

See above

Attach Reports, Reference Documents, and Other Backup Material as Necessary. This report satisfies the requirements of both NWCAA regulation 340, 341, 342 and the WAC regulation (173-400-107).

Is the investigation continuing? ☒ No ☐ Yes

Is the source requesting additional time for completion of the report? ☒ No ☐ Yes

Based upon information and belief formed after reasonable inquiry, I certify that the statements and information in this document and all referenced documents and attachments are true, accurate and complete.

Prepared By: Tim Figgie Date: November 12, 2010

Responsible Official or Designee:  Date: 11/30/10